

On the Stability of Motion of a Pilotless Airplane,
S. V. Kalinin, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 4, 1958, pp 114-117.

SLA 60-17377

Sci

190, 262

Apr 62

Vol IV, No 6

Kinetics of Reduction of Magnetic Iron Ore at the
Transformation Temperatures of Iron, by M. I.
Kochnev, A. F. Plotnikova.

^e
RUSSIAN, per, Iz Ak Nauk SSSR, Otd^L Tekh Nauk,
No 4, Apr 1958, pp 118-EX

121.

Henry Bratcher 4340
RZM \$7.45

Sci - Min/met
Oct 58

75, 715

Distribution of Alloying Elements Between Solid
and Liquid Phases in Alloys, by B. A. Movchan.

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 4, 1958, pp 122, 123.

Henry Bratcher 4378
\$2.80

Sci - Min/Met

Jan 59

78,647

Investigation of a Controlled Motor Drive Fed From
an Ionic Frequency Converter With an Intermediate
Rectified Current Circuit, by M. Z. Khamudkhanov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 5, 1958, pp 7-15.

ALL RTS 1887

Sci - Electron, Engr

204,827

Jul 62

Improvement on the Dynamic Characteristics of a
Gyro Stabilizer by Means of Correcting Circuits.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 5, 1958, pp 21-28.

DSIR LLU M.1490
(loan)

132,346

Sci - Engr

Nov 60

Radiant Heat Transfer in a Flowing Radiating
Medium, by V. M. Adryanov, S. M. Shorin, 11 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 5, 1958, pp 46-50. CIA 9047343

AEC Tr 3928

Sci - Nuc Phys

CIA/FDD X-4705

NSF TT-1

Mar 60

109,489

Remelting of Steel and Alloys in Vacuum Arc
Furnace, by G. N. Okorokov, A. Yu. Polyakov,
A. M. Samarin.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekhn
Nauk, No 5, May 1958, pp 59-62.

Henry Bratcher 4339
\$3.90

Sci - Eng
Oct 28

73, 72 K

7/2 Micromechanism of Brittle Failure in Steel, by
B. S. Kasatkin, 16 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 5, 1958, pp 63-68. 9660764

ATTC MCL-567/III

Sci - M/M

Apr 61

IC-40429-M

147,788

Conditions Prevailing at the Periphery of
Multiply-Supported Blade-Root Connections of Moving
Blades in Gas Turbines, by B. P. Sokolov, 11 pp.

RUSSIAN, per, in Aviatsiya, Otdel Tekhn. Serv.,
No 5, 1958, pp 85-92.

Assoc Tech Serv
834268

Sci - Engr
May 59
OTS, V I, No 6

86,354

63-14660

Zhukov, A. M.
CONDITIONS OF DESTRUCTION OF PLASTIC
METALS IN A COMPLEX STRESS STATE [Ob
Usloviyakh Razrusheniya Plastichnykh Metallov pri
Slozhnom Napryazhenom Sostoyanii]. [1963] 7p. 12 refs.
Order from OTS at SLA \$1.10 63-14660

Trans. of Akad[emiya] Nauk SSSR. Otd[elenie]
Tekhnicheskikh Nauk. [izvestiya] 1958, no. 5,
p. 110-[115].

DESCRIPTORS: *Failure (Mechanics), *Stresses,
Plasticity, *Metals, Deformation, Load distribution,
Tests, Mathematical analysis.

(Metallurgy, IT, v. 10, no. 2)

I. Zhukov, A. M.

Office of Technical Services

The Influence of the Kinetics of the Coke
Combustion Process on the Dimensions of
the Oxidation Zone in a Blast Furnace, by
M. Ya. Oubroukhov. UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, No 6, 1958, pp 3-6.

BISI 1526

(L3 158.03.)

Sci - Min/Met
Jan 60

104,555

The Study of the Method of Elastic Vibrations in the Kinetic Changes in the Properties of Melts on Heating, by

M. G. Lozinskiy, et al.

RUSSIAN, per, Izvest. Akad. Nauk SSSR

O.T.N., no. 6, 1958, pp. 19-29.

*CFSTI TT 70-57076

Sci/phys

Feb 70

Effect of Hydrogen on Structure and Properties of
Titanium and Titanium Alloys, by S. G. Glazunov,
et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
~~Jan~~ 1958, pp 30-36.

Nob

*Henry Bratcher

Apr 59

Redundant Systems With Contact 2 Elements, by
G. V. Drushinin, 12 pp.

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 6, 1958, pp 96-98.

Dept of Commerce
Dr Henry Birnbaum
Natl Bur of Standards

Sol - Physics
Feb 59

80,575

61-22138

Kogan, B. I.
AXISYMMETRIC PROBLEM OF THEORY OF ELAS-
TICITY FOR A MULTILAYER HALF-SPACE
[Osesimmetricheskaya Zadacha Teorii Uprugosti dlya
Mnogosloynogo Poluprostranstva]. [1961] 4p.
Order from ATS \$6.65 ATS-24N50R

Trans. of Akad[emiya] Nauk SSSR. Otdel[eniye]
Tekhnicheskikh Nauk. Izvesti[ya] 1958, no. 6,
p. 111-113.

DESCRIPTORS: *Elasticity, Theory.

(Mechanics, TT, v. 6, no. 1)

I. Kogan, B. I.
II. ATS-24N50R
III. Associated Technical Serv-
ices, Inc., East Orange,
N. J.

161824

Office of Technical Services

Effect of Slightly Permeable Inclusions on Formation
Flooding, by V. A. Karpychev, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 6, 1958, pp 134-136.

ATB-39K28R

Sci - Engineering, Fuels

May 59

OTS V. I, No 8

88, 095

Contact-Catalytic Dehydrogenation of Isopentane
as a Function of Temperature, by N. I. Shuykin,
Ye. A. Timofeyeva, and T. P. Dobrynina, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR. Otdel Khim Nauk,
No 6, 1958, pp 726-729.

Assoc Tech Serv
63K2/R

Sci - Chem
May 59
OTS, V. I, No 6

On Effective Coefficients of Friction for
Vibrations, by I. I. Blekhman, G. YH Yu.
Dzhanelidze, 8 pp.

RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Otdeleniye Tekh Nauk, No 7, July 1958.

CSIR 173

Sci - Engr

Oct 61

On the Kinetic Change in Martensite Transformation
Under the Influence of Irradiation, by A. I.
Zakharov, S. O. P. Maksimova, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 7, 1958, pp 3-9.

AEC SCL-T-336

Sci - Phys
21 Feb 61

140,924

Transition of Flow From the Single-Phase To the
Two-Phase State, by S. A. Lebedev, V. F. Usenko.

RUSSIAN, per, AK NAUK SSSR, Iz Otdel Khim Nauk,
X No 7, 1958, pp 56-60.

Dept of Interior
Tr No 230
ATS/RJ-2797

Sci

Jan 63

Kononenko, V. O.
RESONANT OSCILLATIONS OF A ROTATING SHAFT
WITH A DISC (Rezonansnye Kolebaniya Vrashchayush-
chegosya Vala s Diskom). June 61 [7]p. 3 refs.
RTS 1866.

Order from OTS or SLA \$1.10

61-23638

Trans. of Akademiy N[auk] SSSR. Otdelente
Tekhnicheskikh N[auk]. Izvestiya, 1958, no. 7,
p. 87-90.

DESCRIPTORS: *Shafts, Rotation, Oscillation, Disks,
Turbine wheels.

The oscillatory system being studied is the rotor of an
engine (a turbine) the disk of which is subject to a
moment $L(\Phi)$ depending on the speed of rotation of the
engine. An analysis of the motion shows that certain
vibrational phenomena occur in the resonant region,
depending on the characteristics of the engine. The
solutions obtained explain the familiar experimental
facts and contain the theory of the Sommerfeld effect.

61-23638

- I. Kononenko, V. O.
- II. RTS-1866
- III. Department of Scientific
and Industrial Research
(Gr. Brit.)

180591

Office of Technical Services
(Machinery--Engines,
TT, v. 6, no. 5)

Hypersonic Flow Around a Cone at an Angle of Attack,
by A. L. Gonor, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 7,
1958, pp 102-105.

Morris D. Friedman G-154
9092765

Sci - Physics
May 59
OTB V. I, No 8

89.017

On Turbulence in Flams, by A. G. Prudnikov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 7, 1958, pp 130-133.

Navy 1978/T-41
SLA 59-11898

Sci - Physics
Jan 59

79,873

Composition vs Hot Strength Diagrams of Alloys
of the Titanium-Vanadium-Columbium System,
by V. S. Vlasov, I. I. Kornilov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, No 7, Jul 1958, pp 136-139.

Henry Bratcher 4346
\$7.30

Sci - Min/Met
Oct 58

75.730

Some Principles for Developing Alloys Based on
Borides [of High-Melting Metals], by K. I.
Portnov, G. V. Samsonov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, No 7, Jul 1958, pp 140-141.

Henry Bratcher 4344
\$4.30

Sci - Min/Met
Oct 58

75,729

Chaplygina, E. M.
THE USE OF HIGH-SPEED CINEMATOGRAPHY IN
LABORATORY INVESTIGATIONS OF THE FLOTA-
TION PROCESS [O Primenenii Skorostnoi Kinos"yemi
dlya Laboratornykh Issledovaniy Flotatsionnogo
Protsessa]. [1961] [5]p. 3 refs. NCB Trans.
A. 1680/SEH; [DSIR LLU] M. 2578.
Order from OTS or SLA \$1.10

61-23287

Trans. of Akad[emiya] Nauk SSSR. [Otdelenie Tekhni-
cheskikh Nauk]. [Izv[estiya] 1958, no. 7, p. 149-150.

DESCRIPTORS: Fluorspar, *Flotation, Photographic
analysis, Oxygen, Absorption, Chemical effects

(Engineering--Chemical, TT, v. 6, no. 9)

61-23287

I. Chaplygina, E. M.
II. NCB-A1680/SEH
III. DSIR LLU M. 2578
IV. National Coal Board
(Gt. Brit.)

15529

Office of Technical Services

Study of Combustion of a Homogeneous Mixture in a
Turbulent Flow by Recording Temperature Varia-
tions,] by M. V. Kokushkin,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 8, 1958, pp 3-11.

Navy 1988/T-56

Sci - Physics
Jan 59

79,882

On the Coefficient of Resistance to Motion of
Burning Particles, by V. N. Basov, V. A. Popov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 8, 1958, p 12.

Navy 2308/T-101

Sci - Physics
Sep 59

96 217

Coefficient of Resistance to Motion
of Burning Particles, by V. N. Basov.
V. A. Popov.
RUSSIAN, per, Iz Ak Nauk SSSR, OTN,
No 8, 1958, pp 12-14.
NASA TT F-10,033

Sci-M/M
May 66

300,861

Detonation of Explosive Compounds for Fuel
and Chromium in Carbon Alloys, by L. I. Kozlov,
H. P. Ivanov, 6 pp.

RUSSIAN, Vol. 12 of Kout SESE, Otdel ^{Tekh} ~~Indus~~ ~~Engin~~,
1958, No 8, pp 15-20.

?

AKRS # 11/3/5/1959

DS R M. 200

Vol. 12

Page 59

AEI T/12.45
12/17/1959

On the Time to Failure During Creep, by L. M.
Kachanov. UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 8, 1958, pp 26-31.

DSIR LIJ RTS 1114

15s. Od.

Sci - Min/Met
Sep 59

95, 846

Peculiarities of the Neutral Load Curve, by
A. M. Zhukov. UNCL

ROSSIAN, par. 12. Al Nauk SSSR, Obshch. Tekh. Nauk.
No 8, 1958, pp 32-40.

DSIR LLU RTS 1329

~~(L. 2a. 6a.)~~

Sol - Eager

Feb 69

108,345

The Creation of Vertical Fractures in
Formations With the Aid of Infiltrating
Fluids, by Yu. P. Zheltov, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekh Nauk, No 8, 1957, pp 56-62.

ATS-24M44R

Sci
Vol IV, No 11
Jun 62

Zavalishin, D. A.
NEW TECHNIQUES FOR A.C. FREQUENCY CON-
VERSION BY MEANS OF VALVE CONVERTERS AND
GENERATORS HAVING A VALVE COMMUTATOR
(Novye Sistemy Preobrazovaniya Chastoty Peremennogo
Toka pri Pomoshchi Elektronno-ionnykh Preobrazovate-
lei i Generatorov s Ionnyim Kollektorom). July 61[13]p.
4 refs. RTS 1888.

Order from OTS or SLA \$1.60

61-27297

Trans. of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. Izvestiya, 1958, no. 8,
p. 81-87.

DESCRIPTORS: *Frequency converters, Alternating
current, *Valves, *Generators, Voltage regulators,
*Commutators, Electric machinery.

(Engineering--Electrical, TT, v. 6, no. 10)

DB-

61-27297

- I. Zavalishin, D. A.
- II. RTS-1888
- III. Department of Scientific and
Industrial Research
(Gt. Brit.)

7350

Office of Technical Services

Study of Structural Changes in Nickel-Chromium
Alloy During Creep, by G. Ya. Kozyrskiy, et al.

RUSSIAN, per, Is Ak Nauk SSSR, Otdel Tekh Nauk,
No 8, 1958, pp 90-92.

Henry Bratcher 4402
\$5.25 ~~AAE~~

Sci - Min/Met

Jan 59

78,646

Malyutin, I.S.
FLAMBEMENT D'UNE TIGE AU-DELA DE SA LIMITE
D'ELASTICITE (Buckling of a Bar Beyond the Elastic
Limit). 12p. 6refs. CNRS-XV 115.
Order from OTS, ETC or CNRS \$0.80 TT-62-28212

Trans: in French of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk, Izvestiya, 1958, no.8, p.112-
116.

DESCRIPTORS: *Rods, Pressure, Elasticity, *Defor-
mation, Plasticity, Theory.

(Mechanics, TT, v. 11, no. 6)

TT-62-28212

- I. Malyutin, I.S.
- II. CNRS-XV 115
- III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

The Vortex Wake Accompanying Flow Past
Oscillating Cylinders, by M. A.
Pavlikhina, L. P. Smirnov, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekh Nauk, No 8, 1958, pp 124-127.

ATS-49242R

Sci
Vol IV, No 9
Mar 62

187, 235

RJ-3318

Grodzovskiy, G. L.
SEVERAL EXACT SOLUTIONS TO THE PROBLEM
OF GAS FLOW IN A TUBE WITH CONSIDERATION
OF FRICTION AND CONVECTIVE HEAT EX-
CHANGE, tr. by R. P. Illwitzer. 21 Nov 60, Sp.
4 refs. APL/JHU TG 230-T199.
Order from OTS \$0.50

61-11190

Trans. of ~~Akademii Nauk SSSR~~ Otdeleniya Tekhnicheskikh Nauk Izvestiya, 1958, no. 8, p. 127-129.

Solutions are obtained in general form that can be used for calculating gas flow in a pipe under arbitrary conditions, for example, for an arbitrary distribution of wall temperature along the pipe.

(Mechanics--Pneumatics, TT, v. 5, no. 12)

61-11190

1. Gas flow--Mathematical analysis
2. Pipes--Aerodynamic characteristics
- I. Grodzovskiy, G. L.
- II. APL/JHU TG-230-T199
- III. Applied Physics Lab., Johns Hopkins U., Silver Spring, Md.
- IV. Contract NOrd-7386

142978

Office of Technical Services

On Energy Balance in Separated Turbulent Flow,
by B. A. Fridman, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 8, 1958, pp 139-142.

SLA 60-44337
1

181, 323

Sci
Jan 62
Vol III, No 10

Effect of Hydrogen on Structure and Properties
of the Industrial Titanium Alloys VT 2, VT 3,
and VT 3-1, by S. T. Glasunov, I. I. Kornilov,
A. M. Yakinova.

RUSSIAN, per, Iz Ak Nauk, Otdel Tekh Nauk,
No 9, 1958, pp 17-24.

Henry Bratcher 4506
\$7.25

Sci - Chem

86,631

May 59

60-23209

El'yasberg, M. Ye.
 STABILITY OF THE METAL CUTTING PROCESS (Ob
 ustoychivost' Protsessa Rezan'ya Metallov) tr. by
 M. Slade. [1960] [34]p. (foreign text included) 7 refs.
 Trans. no. 4493.

Order from LC or SLA m\$3.00, ph\$6.30 60-23209
 89.30 61-10675

Trans. of Akademiya Nauk SSSR. Otdeleniye
 Tekhnicheskikh Nauk. Izvestiya, 1958, no. 9,
 p. 37-52.

A theory of self-induced oscillations in machining is
 developed which makes use of the mechanisms accom-
 panying the deformation of the metal being worked.

(OTS TT-62-26398)
 RUSSIAN TO FRENCH

(Machinery--Manufacturing, TT, v. 5, no. 3)

1. Metals--Machining
2. Cutting tools--Mechanical properties

I. El'yasberg, M. Ye.

II. CSIRO Trans-4493

III. Commonwealth Scientific
 and Industrial Research
 Organization (Australia)

142,991

Office of Technical Services

Degassing of Aluminum Alloys by Ultrasonic Vibrations, by M. E. Al'tman, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 9, 1978, pp 25-30.

Henry Bratcher 4417
~~XXXX~~ \$5.35

Sci - Chem, Min/Met

Jan 59

79,594

Thermal Waves in a Layer and in a Plate in Contact
With the Layer, by E. I. Chernigovskaya.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 9, 1958, p 91.

Navy 2010/T-55

Sci - Physics
Jul 59

92,809

Criteria Equations of Convective Heat Exchange in
the Two-Phase Flows of the Gas Mixture Type,
by Z. R. Gorbis.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 9, 1958, pp 94-102.
AEC-NYO-2974-1

Sci-Phys

Dec 64

269,9387

Testing of Thick-Walled Tubes Under High,
Short-Duration, Internal Pressures, by
P. J. Ogibalov, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, No 9, 1958, pp 134-139.

ACSI I-0962
ID 2191521

Sci - Phys
18 Apr 62

191,541

(NY-3905/2).

Information on the Status of Soviet Research in
Hypersonics, by M. S. Solomonov, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 9, 1958, pp 157-159.

JPRS-L-1188-N

Sci - Phys, Engr
Feb 60

107,709

Diffusion of FE* in Alloys of a Compound
System NiCrWAlTi. by I. I. Kornilov, et al.
RUSSIAN, per, Izvest. Akad. Nauk SSSR Otdel
Tekhn. Nauk, no. 10, 1958, pp. 96-99.
*CFSTI TT 70-57033

Sci/phys
Feb 70

The Thickness of the Turbulent Mixing Zone at the
Boundary of Two Gas Streams With Different Velocity
and Density, by O. V. Yakovlevskiy,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 10, 1958, pp 153-155.

ATS NJ-2206

Sci - Chem

May 60

DSIR LRU M. 1250
ATS-24/1138R
115,462

Experimental Verification of the Laws of Isotropy
and Retardation in the Case of Complex Loading,
by V. S. Lenskiy.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 11, 1958, pp 15-24.

DSIR LLU M.1232
(loan)

128,830

Sci - Phys

Oct 60

Movement of Fluid-Sand Mixture in a Well and in a Fracture in Hydraulic Fracturing of an Oil-Bearing Formation, by V. S. Dorozhkin, Yu. V. Zheltov, Yu. P. Zheltov, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR i Otdel Tekh Nauk, No 11, 1958, pp 37-42.

ATS 66L3OR

Sci - Geophys
Vol 2, No 1

97,299

A Single-Axis, Electric Gyro-Stabilizer With the
Rotor-Case Axis at an Oblique Angle, by N. T.
Kuzovkov,

RUSSIAN, par, Is Ak Nauk SSSR, Otdel Tekh Nauk,
No 11, 1958, p 70.

Navy 2057/T-86

Sci - Engr
Mar 59

83,133

Heat Balance of Direct Current Welding Arc in Gases
During the Period of Drop Formation, by I. D.
Kulagin, A. V. Nikolayev.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 11, 1958, pp 89-91.

ATS RJ-2069

Sci - Chem
Dec 59

104,070

Displacement of Gas by Water in a Porous Medium by
A. Kh. Mirzadzhanzade, V. V. Mustafayev, 6 pp.

RUSSIAN, per, Yz Ak Nauk SSSR, Otdel Tekh Nauk,
No 11, 1958, pp 95-97.

ATS 67L3CR

Sci - Chem
Sep 59
Vol 2, No 2

97976

The Regular Precession of a Gyroscope of
Variable Mass, by V. S. Novoselov.

RUSSIAN, par, in Ak Nauk SSSR, Otdel Tekh
Nauk, No 11, 1958, p 98. 9087052

Revy 2056/T-85

Sci - Physics
Mar 59

83,134

A Study of the Thermal Decomposition of Powdered
Shale During the Process of Its Rapid Heating, by
N. A. Karzhavina, V. E. Kozhman, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 11, 1958, pp. 116-120.

ATS 511308

ATS-R3-1933

Sci - Geophys
Sep 59
Vol 2, No 2

98,028

62-10206

Ammosov, I. I. and Musyal, S. A.
VARIATION IN THE MICROHARDNESS OF COAL
WITH REFERENCE TO ITS ORIGIN [Izmenenie
Mikroverdsti Uglei v Zavisimosti ot Ikh Proiskhozhde-
niya]. [1961] [13]p. (foreign text included) 5 refs.
Order from OTS or SLA \$1.60 62-10206

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhni-
cheskikh Nauk. Izvestiya, 1958, no. 11, p. 136-138.

DESCRIPTORS: *Coal, Sources, Hardness,
Geophysics.

Investigations were made of the changes in the micro-
hardness of the petrographic components of a wide
range of coals of various Soviet origins. Measurement
of the micro-hardness was effected by means of the
PMT-3 instrument with an indenter load of 10 g. The
experiments were carried out in reflected light with
(Materials; -Fuels, TT, v. 7, no. 10) (over)

I. Ammosov, I. I.
II. Musyal, S. A.

Office of Technical Services

(NY-3120).

Nikolay Nikolayevich Kachalov (75th Birthday),
3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 11, 1953, pp 1201-1202.

JPRS-L-1106-N

Sci - Misc
Jan 60

The Perturbation Method for the Problem of a Strong
Detonation, by E. I. Andriankin.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 12, 1958, p 5-14

DLA 60-21770
Navy 2220/T-129

Sci - Physics
Jul 59

92, 8/8

Absorption and Dispersion of Weak, Induced Waves
of Very Low and Very High Frequency Under the In-
fluence of Radiative Heat Transfer, by V. A.
Prokov'yev.

RUSSIAN, per, ^A Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 12, 1958, p 15.

Navy 2221/T-130

Sci - Physics
Jul 59

92, 820

Swirling Flow of an Incompressible Fluid in a
Circular Tube, by M. A. Goldshtik, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk;
No 12, 1958, pp 24-31. 9093732

AEC Tr-4832

Sci - Engr, Phys
Dec 61

177, 424

Investigation of the Slippage Mode in an Automatic
Control System, by M. V. Starikova, 6 pp.

RUSSIAN, per, Iz Ak Nauk, Odel Tekh Nauk, No 12,
1958, pp 53-58.

Automation Express
Vol I, No 8
Internat'l Physical Index

Sci
Jun 59

available Br 5246

90,423

PLASTIC DEFORMATIONS IN A THICK-WALLED TUBE U
NDER THE ACTION OF HEAT PULSES AND

IL'YUSHIN, A. LANGUAGE-RU COUNTRY-UR

IZV. AKA. NAUK-UD. TEKH. NAUK., NO. 12, 1958
, 85-89

FSTC-HT-23-0441-73

On the Plastic Deformations of a Thick-Walled
Tube Subjected to Thermal Pulses and Pressure,
by A. A. Il'iushin, P. M. Ogibalov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 12, 1958, p 85.

SLA 68-21713
Navy 2222/T-131

Sci - Physics
Jul 59

92,821

Development of the Combustion Process of Moving
Particles in Nonstationary Hydrodynamic and Thermal
Conditions, by V. A. Popov, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 12, 1958, pp 90-95. 9049282

Johns Hopkins Univ
Applied Phys Lab
Silver Spring, Md.
Navy 2418/T-132

Sci - Phys

Jun 60

SLA 60-21066

120,182

THE EFFECT OF HYDROGEN ON STRUCTURAL TRANSFORMATIONS IN TITANIUM ALLOYS, BY N. I. BLOK, A. I. GLAZOVA, ET AL, 13 PP.

RUSSIAN, PER, IZVESTIYA AKADEMII NAUK SSSR, OTDELENIYE TEKHNIЧЕСКИХ НАУК, NO 12, 1958, PP 96-99.

JPRS 17990

SCI - M/M

MAR 63

224,614

Decomposition of Sulfhydryl Compounds
Under Flotation Conditions, by S. A.
Plaksin, 13 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekh Nauk, No 12, 1958, pp 115-119.

SLA 60-16812

Sci
Vol IV, No 7
Apr 62

193,847

BD #628

(DC-3131).

Lev Dmitriyevich Shevyakov (On his 70th
Birthday), by A. A. Skochinskiy, B. A.
Rozenreter, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 1, 1959, pp 4-8.

JPRS-L-2021-^J D

USSR

Bio

Sci - Misc

Feb 60

Mechanism of Oxidation of Some NI-CR
Base Alloys, by D. Ignatov, R. Shamgunova.
RUSSIAN, per, Iz OTN Akad Nauk SSSR,
No 3, 1959, pp 83-87.
*FTD-TT-65-1919

Sci-Chem
Set 65

Calculating the Critical Velocities During Movement
of Loads Over a Beam, by A. B. Morgayevskiy.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
~~Tekhn~~ No 3, 1959, pp 176-178.

*FTD-MI-62-29
MACHINE TRANSLATION

Sci - Phys

Aug 62

Temperature Dependence of Elastic Modulus and of
Linear Expansion Coefficients for Certain Metals,
by A. M. Zhukov,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 4,
1959, pp 173-175.

Sci - Phys

May 60

~~SECRET~~

Information 56
under, as 1A741-57/4.31

Contribution to the Theory of Spherical Air
Bearings, by Ya. M. Kotlyar,

RUSSIAN, per, Iz Ak Nauk, Otdel Tekh Nauk, No 6,
1959, pp 21-26.

*ATIC

Sci - Phys

16 May 61

C-925

(SF-1965)

Nikolay Antonovich Dollezhal', 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekh Nauk, No 6, 1959, pp 196-197.

JPRS 12803

USSR

Biog

Mar 62

Several Exact Solutions to Problem of Gas Flow
in a Tube with Consideration of Friction and
Convective Heat Exchange, by G. L. Grodzovskiy.

RUSSIAN, per, Iz AN SSSR, OTD Tekhn Nauk,
No 8, 1959, pp 127-127.

ERDL, Ft Belvoir
T-1266

Sci J
Jun 61

155,349

14

(DC-4054)

An Approach Toward a Theory of Nonperturbed
Systems With Three Channels for Automatic
Compensation of Accelerations Due to Gravity,
by V. A. Bodner, V. P. Seleznev, 17 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 1, Jan/Feb 1960, pp 76-85.

JPRS 3843

Sci - Phys, Space Research
Sep 60

125,671

Application of Low Angle Scattering of ~~XXR~~
X-Rays to the Study of Ultra Fine Porosity
of Coal, by M. A. Davydova, G. M. Plavnik.

RUSSIAN, per, Ak Nauk SSSR Izvestiya Otdel
Tekh Nauk, No 6, 1960, pp 150-155.

CRL/T. 1042

Sci-Fuels & Propulsion
Mar 63

On the Almost-Periodic Regime of a Four-Dimensional
Automatic Control System, by B. V. Shirokored. UNCL

RUSSIAN, per, Iz Ak Nauk Otdel Tekh Nauk, No 5, 1960,
pp 159-165.

⁵⁴
*ATTN MCL-12/12/1

Sci - Engr, Electricity
6 Jul 61
5-7-45

Equilibrium of Cylindrical Rubber-Cord
Envelopes, by V. L. Biderman and B. L. Bukhin.
RUSSIAN, per, Akademiya Nauk SSSR. Izvestiya.
Otdelenie Tekhnicheskikh Nauk. Mekhanika, No 6,
1960, pp 156-158.
NTC 13870-20K

Feb 72

Features of Reaction of an Armature and Commuta-
tion Reaction of Certain Types of Special DC
Electrical Machines, by K. A. Bobov,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh.
Nauk, No 6, Nov/Dec 1960, pp 167-173.

ERDL, Ft Belvoir
T-1326

Sci - Electricity, Engr
Jul 61

160,514

Sulfate Roasting of Vysokogorsk Iron Ores in a
Fluidized Bed, by L. A. Petrov.
RUSSAN, per, Izv Ak Nauk SSSR, Otd Tekh Nauk Met i
Toplivo, No 1, 1961, pp 31-38.
ATS RJ-5126

Sci-Mat
July 69

385,504

Some Problems of Thermal Stability, by M. Yu.
Bal'shin, Day Shou-Huey,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
No 3, 1961, pp 73-76.

*FTD TT-61-160

Sci - Engr
Oct 61

Izvestiya Ak Nauk SSSR, Otdel Tekh Nauk, Jan 1962,
cover-to-cover, will be made ~~not~~ available by
Scientific Information Consultants Ltd.

Per AEC list 71

Jan 62

00 00 02 075 62 - 20399

Thermodynamics of Tungsten Carbides, by
V. I. Alekseyev, L. A. Shvartsman.

RUSSIAN, per, Iz Ak Nauk SSSR Otdel Tekh Nauk,
No 1, 1963, pp 91-96.

*BISI ~~88mm2~~ 3321

Sci - Chem
Aug 63

PERF Derivatives of Perfluorocarbonic Acids, by
I. L. Kramyants, M. P. Krasuskaya, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 1
1963, pp 190-192. 9669401

FTD-TT-63-463

Sci-Chem
July 63

235,825

(DC-6320)

Digital Computer Programs for Calculating
Transient Processes In Networks With
Periodically Varying Parameters, by
V. A. Taft, V. A. Skobelev, 18 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, Elektroenergetika, No 2, 1960,
pp 105-114.

JPRS 11607

Sci - Engr

179,140

Jan 62

Pressure and Erosion in Region of Separation
Cavitation of a Round Profile, by

K. K. Shal'nev. 17 pp.

RUSSIAN, per, Iz AN SSSR, Otdeleniye
Tekhnicheskikh Nauk Energetika i

Avtomatika, No 6, 1954, pp 111-120.

P100115767

FTD MT 65-657

Mechanical

May 67

3254,958

The Basic Properties of Frequency Control
Applied to AC Electric Drives Using a Single-
Armature Converter, by V. S. Kulebakin, A. A.
Tashin, 122 pp.

RUSSIAN, per, Izvestia Akad. Nauk. Otdel. Tekh.
Nauk. Energetika i Avtomatika No 1, 1959,
pp 11-19.

Automation Express
Vol 1, No 2
Internat'l Physical Index

Sci

Jun 59

AVAILABLE BR 5 91,047
LIBRARY

(NY-3305/2).

Application of the Electroanalog Method to
the Solution of Radiant Heat Transfer Problems,
by V. N. Adrianov, 10 pp.

RUSSIAN, PER, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Energetika i Avtomatika, No 1, 1959, pp 20-25.

JPRS-L-1117-N

Sci - Engr
Dec 59

103,477

(NY-3905/1).

On the Derivation of a Basic Equation of the
Hydrodynamic Theory of Heat Transfer, by P. M.
Pinsker, 13 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Energetika i Avtomatika, No 1, 1959, pp 26-32.

JPRS-L-1117-N

Sci - Engr
Dec 59

103,476

(NY-3905/1).

Calculation of Heat Transfer and Friction of a Flat Plate Swept by a Supersonic Flow in the Presence of Porous Intake of a Gas and Sublimation Under laminar Boundary Layer Conditions, by V. P. Potulovich, 10 pp.

RUSSIAN, per. Is Ak Nauk SSSR, Otdel Tekh Nauk, Energetika i Avtomatika, No 1, 1959, pp 33-38.

JPRS-L-1117-N

Sci - Engr
Dec 59

103,472

Experimental Investigation on the Condensation of a
Jet of Steam in a Space Filled With Liquid, by
B. F. Glikman.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Energ i Avtomat, No 1, 1959, pp 39-44.

DSIR LLU M. 1995

Sci - Phys

169,832

Oct 61